

ANDREYEV, I.D., red.; ARKHANGEL'SK, L.M., red.; RUTKEVICH, M.N.,
red.; SPENKOVSKAYA, V.I., red.; VIKTOROVA, V., red.;
CHEREMNYKH, I., mladshiy red.; NOGINA, N., tekhn.red.

[Practice as the criterium of scientific truth] Praktika -
kriterii istiny v nauke. Moskva, Izd-vo sotsial'no-ekon.
lit-ry, 1960. 461 p. (MIRA 14:3)
(Science--Philosophy)

STEMPKOVSKIY, A.M.

"Frost Formations on the Ground's Surface," Priroda, No. 10, 1949.

KRUMIN, Ye.A., kand.tekhn.nauk; STEMPKOVSKIY, G.A., inzh.

Parameters of small sized DT-0, 2-500 and DT-0, 6-500 choke
transformers. Avtom., telem.i sviaz' 6 no.2:10-11 F '62.
(MIRA 15:3)

(Electric transformers) (Railroads--Electric equipment)

STEMPKOVSKIY, G.A.

Small-sized DTL-150 choke-transformer. Avtom., telem. i sviaz' 7
no.8:13-15 Ag '63. (MIRA 16:9)

1. Nachal'nik laboratorii zavoda "Transsignal."
(Electric railroads--Electric equipment)

STEMPKOVSKIY, V.

Dorogi Albanii. [The roads of Albania]. (Vokrug sveta, 1951, no. 2, p. 5-9).
Discusses also other forms of transportation of Albania.

DLC: G1.V6

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

STEMKOVICH V. M.

Centrifugal switches with the buffers of the grease system of Nekrasov and Stempkovskii
Moskva, Gos. transp. zhel. -dor. izd-vo, 1946. 112 p. (51-17875)

TF266.883

STEMPLAWSKI, W.

STEMPLAWSKI, W. Discipline of loading in the Lodz District Administration
of State Railroads. p. 431.

Vol. 7, No. 11, Nov. 1955

PRZEGLAD KOLEJOWY

TECHNOLOGY

Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

STEMPLEWSKI, Wiktor, inż.

New series of low-capacity oil transformers. Przegl elektrotechn
40 no.9:390-391 S '64.

1. Transformer Plant, Mikolow.

STEMPNEVSKAYA, M.R., BOGOLYUBOVA, V.A., STAZRA SoyuzNIKHI, Tashkent)

"On the Question of the Use of Mercaptos and Octamethyl for Combatting
Suctorial Pests of Cotton Plants" (K voprosu primeneniya merkaptofosa i
oktametila dlya bor'by s sosushchimi vreditelyami khlopchatinka)

Chemistry and Uses of Organophosphorous Compounds
(Khimiya i primeneniye fosfororganicheskikh sovedneniy),
Trudy of First Conference, 8-10 December 1955, Kazan,
pp. Published by Kazan Afil. AS USSR, 1957
476-484,

USSR / General and Special Zoology. Insects. Insect
and Mite Pests.

P

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54327.

Author : ~~Stempnevskye~~^a, M. R.

Inst : All-Union Plant Protection Inst.

Title : Penetration of Insecticides into the Cucumber and
Melon Plants when Applying Preparations on the Leaves.

Orig Pub: Tr. Vses. in-ta zashchity rast., 1956, vyp. 7, 113-
117.

Abstract: Insecticides were applied to the upper sides of the
cucumber melon leaves. In the first days after the
treatment with thiophos (0.01%) the following pests
feeding on the bottom part of the leaves were
destroyed: the trailing plant aphid, spider mite,
tobacco thrips and ladybug (*Epilachna chrysomellina*)
larvae of the 1st stage. The action of thiophos

Card 1/2

18

USSR / General and Special Zoology. Insects. Insect
and Mite Pests.

P

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54327.

Abstract: ceased on the 7th day. Octamethyl (0.1-0.2%) produced an intensified destruction of aphids, mites and thrips during the first days of treatment of cucumbers and provided a lasting intoxication on the leaves. The DDT suspension (0.1%) on the cucumber leaves did not bring about destruction of the aphids and mites for 12 days and lowered the number of thrips by 90-97% in 7-12 days. The 0.02% DDT suspension produced 100% mortality in the ladybug larvae when setting them out on the leaves 23 days after treatment. The concentration of the insecticides is given according to the active ingredient. -- A. P. Adrianov.

Card 2/2

STEMPNEVSKAYA, M. R.

USSR / General and Specialized Zoology. Insects.
Insect and Mite Pests. P

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44802

Authors : Bogolyubova, V. A.; Stempnevskaya, M. R.

Inst : AS USSR

Title : The Problem of the Use of Mercaptophos and Octamethyl in Controlling the Sucking Pests of Cotton.

Orig Pub : Khimiya i primeneniye phosphororganic, soyedineniy, M., AN BSSR, 1957, 476-484.

Abstract : In equal concentrations, the toxicity of octamethyl (0.2 - 0.3%) for mites and aphids lasted longer than that of Mercaptophos (0.05 - 0.75%). The mite larvae which developed out of the eggs after the treatment were destroyed with 0.1% Mercaptophos concentration when the leaves were

Card 1/3

USSR / General and Specialized Zoology. Insects. P
Insect and Mite Pests.

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 44802

sprayed abundantly on both sides, with a 0.2% concentration - when the leaves were sprayed on one side. Aphids and mites feeding on the newly grown cotton leaves treated with mercaptophos (0.2% and 0.5%) were not destroyed. The 0.3% concentration was the most effective. Leaf scorching on the lower level and 2.6 - 7.6% defoliation were observed when the cotton was treated at the beginning of budding with mercaptophos (0.1 - 0.2%) or by octamethyl (0.2 - 0.4%). When both preparations were used, especially in high concentrations, the accumulation of dry matter and the growth of the stems proceeded faster than in the control, although 100% flowering and ripening took place later than in the control.

Card 2/3

USSR / General and Specialized Zoology. Insects. P
Insect and Mite Pests.

Abs Jour : Ref Zhur - Biol., NO.10, 1958, No. 44802

Mercaptophos is most promising for mite and aphid control where there is poisoning outside of the roots. No positive results were gotten from either dusting or moistening the seeds with mercaptophos (10 - 15 kg/centner). The insecticide concentration is listed according to the preparation. -- A. P. Adrianov.

Card 3/3

24

STEMPORZHETSKAYA, Ye.G.; BORISOVA, T.A.; KARON, I.I., red.;
KUZ'MINA, N.S., tekhn. red.

[Instructive and methodical manual on disinfection] Sbornik in-
struktivno-metodicheskikh materialov po dezinfektsionnomu delu.
Moskva, Medgiz, 1962. 430 p. (MIRA 16:1)

1. Russia (1923- U.S.S.R.) Ministerstvo zdravookhraneniya.
(DISINFECTION AND DISINFECTANTS) (PUBLIC HEALTH LAWS)

STEMPROK, K.

"Trolley Wire for Electric Railways in Deep Mines." p. 130, Praha, Vol. 2, no. 5, May 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

CZECHOSLOVAKIA

STEMPROKOVA-JIROVA, D; TRUMPER, E.

1. Natural Sciences Faculty of Charles University (Přirodo-vedecká fakulta Karlovy university), Prague (for Stempřokova-Jirova; 2. Central Geological Institute (Zentrales Geologisches Institut), Berlin (for Trumper)

Prague, Casopis pro mineralogii a geologii, No 4, 1964, pp 471-472

"The Correlation of Stratigraphical Distribution of Stensioeina in the Bohemian and German Boreal Cretaceous."

CA

Application of a capillary to the electrographic analysis of
metals. M. Stompiuk (Charles Univ., Prague, Czech.)
Chem. Listy 45: 1507 (1951). A simple device is designed
for the electrographic detn. of metals in a capillary. The
deposited crystals can be identified under a microscope.
M. Hudlický

STEMPROK, MIROSLAV

Chemical Abst.
Vol. 48 No. 3
Feb. 10, 1954
Mineralogical and Geological Chemistry

6
Mineralogical revision of the ore deposit near Hradové, Strakonice. Miroslav Stempřok. *Věstník Králov. Česk. Společnosti věd. 1951, No. 3, 1-14.* (English summary).—Mineralogical study of 3 samples showed the following paragenesis: arsenopyrite, pyrite, quartz, galena, sphalerite, barite, ankerite; barite, galena, sphalerite and quartz, ankerite, calcite; chalcopyrite, bornite, chalcocite, covellite. Michael Fleischer

EH
9-16-54

STEMPROK, MIROSLAV

A method for the rapid detection of sulfur in some natural sulfides and thio salts. Miroslav Stempřok (Charles Univ., Prague). *Geologie (Z. Gesamtgebiet Geol., Mineral., sowie angew. Geophysik)*, 1, 453-51(1952); cf. C.A. 46, 3902h. An electrographic method is described in which a soln. of Sb chloride or tartrate is placed in the capillary of the cathode. The H₂S liberated gives an orange ppt. of Sb₂S₃; Se gives a dark-brown ppt., Te a black ppt. A list is given of minerals that give pos. or neg. results with this test; some of the latter are nonconductors that react if the Sb soln. is placed around the anode and the cathode is in contact with both the mineral and the Sb soln. Michael Fleischer

MF

✓ The position of antimony in hydrothermal deposits. CH
Miroslav Štemprok. *Věstník ústřed. ústavu geol.* 30, 141-2
(1955) (English summary). — Sb is usually absent from de-
posits contg. F. Probably Mo, Sn, W, and Si are removed
from the magma as volatile fluorides, whereas Sb, whose
fluoride is less stable, remains behind to be coned. in hydro-
thermal phases characterized by a high content of sulfide ion.
Michael Fleischer

STEMPROK, Miroslav.

Rapid method for determining copper and iron in certain sulfides.
Zap.Vses.min.ob-va 85 no.1:100-101 '56. (MLRA 9:7)

1.Kafedra mineralogii, geokhimii i kristallografii Karlova universi-
teta v Prage.

(Mineralogy, Determinative) (Sulfides--Analysis)

CZECHOSLOVAKIA / Cosmochemistry. Geochemistry.
Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim, No 12, 1959, 41936.

Author : Stemprok, M.
Inst : Central Geological Institute.
Title : Contribution to the Problem of the Genesis of the
Cinovec Ore Deposit in the Region of the Krusny
Mountains.

Orig Pub: Vest. Ustred. ustavu geol., 1958, 33, No 4, 270-274.

Abstract: The Cinovec deposit (Zinnwald) is connected to the block of granites, intruded by the quartz-porphyrific complex. Three hypogene stages of mineralization are distinguished: 1) quartz-wolframitic - filling of the cracks, 2) Zinnwaldite - topaz-substitution of minerals of earlier stages, greisenization of casings and 3) sulfide. It is assumed

Card 1/2

CZECHOSLOVAKIA / Cosmochemistry. Geochemistry.
Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim, No 12, 1959, 41936.

● Abstract: that volatile components played a considerable
role in the formation of minerals. -- I. Lipova.

Card 2/2

D-3

STANISLAV, Jirka
STANISLAV, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: /not given/

Source: Prague, Casopis pro Mineralogii a Geologii, Vol VI, No 3, 1961,
pp 339-345.

Data: "A Survey of Opinions on the Transport of Tin in Ore Depositing
Fluids."

GPO 981643

STEMPROK, Miroslav

SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Central Institute of Geology (Ustredni ustav geologiccky),
Prague.

Source: Prague, Vestnik Ustredniho Ustavu Geologickeho, Vol XXXI,
No 2, 1961, pp 145-147.

Data: "Probable Immiscibility of the Liquid Magmatic Source of
the Sn-W-Mo Deposits."

114

STEMPROK, M.

STEMPROK, M.
SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degree: Ph.D.

Affiliation: Central Institute of Geology (Ústřední ústav geologický), Prague.

Source: "Práce Ústředního ústavu geologického, Vol. XLVII, No. 2, March 1961, pp. 127-131.

Data: "Contributor of Scheelite from Horni Hradištko, area of Litava in Bohemia, Czechoslovakia."

Comment:

Stemprok, M., *ANSTAXIYANÁ* /as above/

STEMPROK, Miroslav

~~SURNAME (In caps); Given Name~~

Country: Czechoslovakia

Academic Degrees: /not given

Affiliation: ~~Central Institute of Geology (Ustredni ustav geologiccky),~~
Prague.

Source: Prague, ~~Vestnik Ustredniho Ustavu Geologickeho, Vol XXXVI, No 2~~

Date: 1961, pp 273-284,
"Classification of Structures of Some High Temperature Vein
Deposits of the Sn-W-Mo Formations and Its Application in the
Study of Zonality."

167

STEMPROK, Miroslav

SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Central Institute of Geology (Ustredni ustav geologicky),
Prague.

Source: Prague, Vestnik Ustredniho Ustavu Geologickeho, Vol XXXVI,
No 2, 1961, pp 303-305.

Data: "Remarks on the Paragenetic Position and Chemical Composi-
tion of Zinnwaldite From Cinovec."

174

STEMPROK, Miroslav

"Mineralogy of the wolframite deposits of Eastern Transbaikalia.
Bukuka - Belukha" by V.F. Barabanov. Reviewed by Miroslav
Stemprok. Vestnik ust geolog 37 no.6:417-418 N '62.

STEMPROK, Miroslav

"Illustrated card index of ore microscopy" by A. Maucher and G. Rehwald. Reviewed by Miroslav Stempok. Vestnik ust geolog. 37 no.6:462-463 N '62.

STEMPROK, Miroslav

"Basic characteristics of mineralogy of the Dzhidinskiy molybdenum-tungsten deposit" by M.M. Povilajtis [Povilaitis, M.M.].
Reviewed by Miroslav Stempok. Vestnik ust geolog 37 no.6:447-448 N '62.

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STEM PROR, M

STEMPROK, Miroslav, promovany geolog, kandidat geologicko-
mineralogickych ved.

Structural borehole "Cs 1" at Cinovec. Geol pruzkum 5 no.4:
99-101 Ap '63.

1. Ustredni ustav geologicky, Praha.

STEMPROK, Miroslav, promovany geolog, kandidat geologickomineralogickych
ved

Symposium on problems of postmagmatic ore deposition. Geol
pruzkum 5 no.7:193-194 J1 '63.

1. Ustredni ustav geologicky, Praha.

POLAK, Adolf, RNDr.; STEMPROK, Miroslav, promovany geolog, kandidat geologicko-mineralogickych ved

Use of albitized Cinovec granite as substitute raw material in the ceramic and glass industries. Geol. pruzkum 5 no.8:227-230 Ag '63.

1. Ustredni ustav geologicky, Praha.

STEMEROK, Miroslav, promovany geolog, kandidat geologicko-mineralogickych
ved.

Some scientific results of the symposium on problems of the
origin of postmagmatic rock formation. Geol pruzkum 6
no.1:3-6 Ja'64.

1. Ustredni ustav geologicky, Praha.

STEMPROK, Miroslav

Traces of sulfide and greisen mineralization in the deep parts of the Cinovec (Zinnwald) granite Massif. Vest Ust geol 39 no.3:211-213 My '64.

"Postmagmatic ore fields and their classification" by M.A. Karasik. Reviewed by Miroslav Stempok. Ibid.:232

1. Central Geological Institute, Prague.

STEMPROKOVÁ-SIROVÁ, D.; TRUMPER, E.

Comparison of the stratigraphic distribution of the *Stenobolites* genus in the Bohemian Cretaceous and the German boreal Cretaceous. *Cas. nár. geol.* 9 no.4:471-472 1964.

1. Faculty of Natural Sciences of the Charles University, Prague (for Stenprokova-Sirova). 2. Central Geological Institute, Berlin (for Trumper). Submitted November 23, 1963.

STPMEURSKI, Stefan, inż. (Rzeszow); DRCCON, Jerzy, mgr., inż. (Rzeszow)

Electrolytic cleaning of used cyanide galvanizing baths. Gaz woda
techn-sanit 36 no. 4:158-159. Ap '62

DROGON, Jerzy, mgr inż.; STEMPURSKI, Stefan, inż.

Studies on the possibility of electrolytic cleaning of sewages
containing cyanides. Przegl mech 22 no.18:571-573 25 S'63

1. Wytownia Sprzetu Komunikacyjnego, Rzeszow.

1955, 1.

The offensive continues; on the 10th anniversary of the offensive of the Soviet Army from the Vistula River to Berlin. p. 135.
ZIT KOTODI, Praha, Vol. 9, no. 5, Mar. 1955.

38: Monthly List of East European Accessions, (MEAL), IC, Vol. 4, no. 10, Oct. 1955,
Uncl.

STECH, P.

The offensive against Berlin continues. p. 198.
MIST KOTODU, Praha, Vol. 9, no. 7, Mar. 1955.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

SWED, P.

Story of driver Fabera. p. 410.
SVETOTON, Praha, Vol. 9, no. 13, June 1955.

SO: Monthly List of East European Accessions, (SE&L), LC, Vol. 4, no. 10, Oct. 1955,
Incl.

SRMIA, P.

Driving with precision, beauty, and strength. p. 424.
Czechoslovak motorcycles for the prize of the Mediterranean. p. 426.
Tourist trophy. p. 427.
MOTOCROSS, Praha, Vol. 6, no. 14, July 1955.

SO: Monthly List of East European Accessions, (EMAL), LC, Vol. 4, no. 10, Oct. 1955,
Encl.

STEMR, M.

"I'll see you at the next Spartakiad." p. 457.

SVET MOTORU. (Svaz pro spolupraci s armadou). Praha, Czechoslovakia,
Vol. 9, No. 15, July 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

STEMR, M.

Victory of life. p. 294. SVET MOTORU. (Svaz pro
spolupraci s armadou) Praha. Vol. 10, no. 10, May 1956.

SOURCE: East European Accessions List, (EEAL),
Library of Congress. Vol. 5, no. 12,
December 1956.

STEMULAK, J

GEOGRAPHY & GEOLOGY

PERIODICALS: KWARTALNIK GEOLOGICZNY. Vol 1, No. 2, 1957

STEMULAK, J. A report on drilling the borehole Plonsk l. p. 268

Monthly List of East European Accessions (EEAI) LC. Vol 8, No.4
April 1959, Unclass

STEMULAK, Jozef

The structure of Szamotuly and Oborniki region in the light of new drilling and geologic investigations. Kwartalnik geol 3 no.2:296-309 '59. (EEAI 9:8)

1. Panstwowe Przedsiębiorstwo Przemysłu Naftowego "Polska Polnoc."
(Poland--Geology)

JAWER, Eugeniusz; STEMULAK, Jozef

Salt bearing formation in the "Szczepanow" bore-hole near Brzesko.
Przeł geol 9 no.11:606-607 '61.

1. P.P.P.N. "Polnoc", Pila.

(Poland--Salt)

STEMULAK, Jozef; JAWOR, Eugeniusz

Deep geologic structure of the Carpathian Foreland West of the
Dunajec and Vistula Rivers. Kwartalnik geol 7 no.2:169-186
'63.

1. Panstwowe Przedsiębiorstwo Poszukiwan Naftowych, Krakow.

STEMULAK, Jozef

Influence of the main facies of Zechstein dolomite upon its oil deposits. Przegl geol 11 no.4:196-200 Ap '63.

1. Zjednoczenie Przemyslu Naftowego, Warszawa.

STEMULAK, J. mgr

A new deposit of hydrocarbons in the Polish Lowland.
Nafta Pol 19 no.11:251 N°63.

1. Naczelny geolog, Zjednoczenie Przemyslu Naftowego,
Krakow.

Stena, A.N.
KAYGORODOVA, N.V.; PANTUSOV, A.S., dotsent; STENA, A.N., zasluzhenny vrach
RSFSR.

Traumatism in children under rural conditions. Ortop.travm. i
protez. 18 no.4:45-48 J1-Ag '57. (MIRA 11:1)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. kafedroy - prof.
A.N.Manuylov) Omskogo meditsinskogo instituta im. M.I.Kalinina na
baze Omskoy oblastnoy bol'nitsy (glavvrach - K.I.Shekhurdina) i
Krutinskoy rayonnoy bol'nitsy (glavvrach - A.N.Stena)
(WOUNDS AND INJURIES, in inf. and child.
statist. in rural cond.)
(RURAL CONDITIONS
statist. of traumatism in child.)

STENANKOV, Aleksandr Antonovich; GOLUBNICHYI, I.S., redaktor; VORONIN, K.P.,
tekhnicheskii redaktor

[Fundamental problems in the economics of hydroelectric power]
Osnovnye voprosy ekonomiki gidroenergetiki. Moskva, Gos. energ.
izd-vo, 1956. 359 p. (MLRA 9:8)
(Hydroelectric power)

CHERNOV, V.M.; STENAR', M.M.

Stratigraphy of Karelian formations of western Karelia.
Trudy Kar. fil. AN SSSR no.26:29-45 '61. (MIRA 14:7)
(Karelia—Geology, Stratigraphic)

STENAR', M.M.

Sedimentary-volcanic formations in the Lake Bol'shezzero
area (western Karelia). Trudy Kar. fil. AN SSSR no.26:65-75 '61.
(MIRA 14:7,

(Lake Bol'shezzero region--Rocks)



STENAVOVIC, A.
GROZDANIC S.

New study of the field bumblebee (*Bombus agrorum*) in the area of
Fruska Gora. p. 44.

GEODETSKI LIST. (Društvo geodeta Hrvatske)
Zagreb, Yugoslavia
Vol. 13, no. 7/9, July/Sept. 1959

Monthly list of Eastern European Accession Index (EEAI) IC vol. 8, No.11
November 1959
Uncl.

STERNAK ILO, A.; SPREMIANIC S.

New study of the field bumblebee (*Bombus agrorum*) in the area of Fruška Gora. p.11

ABONNIK ZA PRIRUCNE NASKE Novi Sad, Yugoslavia, no.18, 1959.

Monthly List of East European Accessions Index (EMAI) LC, Vol.8, no.11

Nov. 1959

Uncl.

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ACC NR: AF6034108 (A) SOURCE CODE: UR/0089/66/021/004/0319/0321

AUTHOR: Bulkin, Yu. M.; Zhirnov, A. D.; Konstantinov, L. V.; Nikolayev, V. A.; Sten-
bok, I. A.; Lobanov, V. S.; Benevolenskiy, A. M.

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56
B

ORG: none

TITLE: RG-1 reactor for geological research

SOURCE: Atomnaya energiya, v. 21, no. 4, 1966, 319-321

TOPIC TAGS: thermal reactor, research reactor, geologic research facility, tracer study, radioactive source/ RG-1 research reactor

ABSTRACT: The reactor described is of the swimming-pool type rated at 5 kw thermal. It is intended for the production of radioactive isotopes with different half-lives, for activation analysis of technological and geological samples, and for estimates of the absorbing abilities of solid and liquid materials and alloys, and also for use in conjunction with a group of laboratories (radiochemical laboratory, laboratory for exact radiometric measurements, and other specialized facilities) for the development of new engineering and technical research methods using radioactive isotopes. The fuel is UO₂ (10% enrichment) and the critical load is 2.6 kg of U²³⁵. The reflector is made of graphite blocks clad in aluminum. The core and reflector are placed in a water-filled aluminum tank (1500 mm dia, 3500 mm high). Boron steel control rods are used. There are altogether seven different channels located in areas with different thermal and fast neutron flux densities (up to 10¹¹ neut/cm²-sec). The maximum pro-

Card 1/2

L 08078-67

ACC NR: AF6034108

ductivity reaches 2600 millicurie when 8 standard ampoules with $KMnO_4$ are used (maximum 400 mCu in one ampoule). The auxiliary equipment used to handle the radioactive material and to control the reactor are briefly described. Orig. art. has: 2 figures.

SUB CODE: 18, 08/ SUBM DATE: 00 / ATD PRESS: 5102.

nuclear metallurgy 18

Card

2/2 *plw*

ACC NR. AP000783

(A,N)

SOURCE CODE: UR/0089/66/021/ 5/0363/0368

AUTHOR: Bulkin, Yu. M.; Zhirnov, A. D.; Zhemchuzhnikov, G. N.; Konstantin
Nikolayev, V. A.; Stenbok, I. A.; Lobanov, V. S.; Filippov, A. G.; Khramov

ORG: none

TITLE: Research and educational reactor IR-100

SOURCE: Atomnaya energiya, v. 21, no. 5, 1966, 363-368

TOPIC TAGS: research reactor, nuclear reactor characteristic/ IR-100 reactor

ABSTRACT: The authors describe the construction, the physical and technical characteristics, and the experimental capabilities of a research reactor with thermal rating of 100 kw, intended for scientific research work and also for training of specialists in the field of atomic energy. This is a water-cooled and water-moderated swimming-pool reactor with all the equipment situated in a central building. It uses enriched UO₂ (10%), with a minimum critical mass of 2.6 kg of U²³⁵, and a graphite reflector. The maximum thermal and fast neutron fluxes are 2×10^{12} and 2.2×10^{12} , respectively. The various channels and the possible research that can be carried out with the reactor, as well as the general construction, are described in some detail. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 18/ SUBM DATE: 28 Jul 66/ ORIG REF: 002/ OTH REF: 003

Cord 1/1

UDC: 621.039.520.21

LEYPUNSKIY, A.I., red.; FURSOV, V.S., doktor fiz.-matem.nauk, red.;
STENBOK, I.A., nauchnyy red.; ZAVODCHIKOVA, A.I., red.;
FRIDMAN, V.Ya., red.; MAZEL', Ye.I., tekhn.red.

[Works of the Second International Conference on the Peaceful
Uses of Atomic Energy. (Selected reports by foreign scientists)].
Trudy Vtoroi mezhdunarodnoi konferentsii po mirnomu ispol'zovaniyu
atomnoi energii, Zheneva, 1958. [Izbrannye Doklady inostrannykh
uchenykh]. Moskva, Izd-vo Glav.uprav.po ispol'zovaniyu atomnoi
energ.pri Sovete Ministrov SSSR. Vol.3. [Physics of nuclear reactors]
Fizika iadernykh reaktorov. Pod obshchei red. A.I.Leipunskogo i V.S.
Fursova. 1959. 803 p. (MIRA 13:6)

1. International Conference on the Peaceful Uses of Atomic Energy,
2d, Geneva, 1958. 2. Deystvitel'nyy chlen AN USSR (for Leypunskiy).
(Nuclear reactors)

STEIN 311 1 B

10

PHASE I BOOK EXPLOITATION

807/5425

Fedorov, N.D., Candidate of Technical Sciences, Compiler

Kratkiy spravochnik inzhenera-fizika: Yadernaya fizika. Atomnaya fizika
(Concise Handbook for the Engineering Physicist: Nuclear Physics. Atomic
Physics) Moscow, Atomizdat, 1961. 507 p. 28,000 copies printed.

Ed.: A.F. Alyab'yev; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This reference book is intended for engineers and physicists working
in the field of atomic and nuclear physics.

COVERAGE: The first seven parts of the book contain the most necessary reference
material on atomic and nuclear physics. The remaining parts present information
and data from other related fields. The last part gives the information on
systems of units compiled from the new GOST specifications, physical constants,
and some mathematical data. No personalities are mentioned. References
accompany each part of the book.

Card 1/15

Concise Handbook (Cont.)

SOV/5425

PART FOUR. REACTOR CONSTRUCTION (YU. I. KORYAKIN)

I. Classification of Reactors	131
II. Table of Reactors of Capitalist Countries	132
1. Power reactors 2. Experimental power reactors. 3. Power research reactors. 4. Low-power research reactors	

PART FIVE. PROTECTION FROM REACTOR RADIATION (I. A. STENBOK)

I. Characteristics of radiations	156
II. Attenuation of γ -radiation	174
III. Attenuation of Neutron Radiation	191
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PART SIX. PLASMA PHYSICS AND THERMONUCLEAR REACTIONS (V. I. PISTUNOVICH)

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Card ~~6/13~~

STENCEL, F.

New people, initiative, and results.

P. 6. (Rolnik Spolodzielca. Vol. 9, (i.e.10) no. 7, Feb. 1957, Warsaw, Poland)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2,
February 1958

STENCIEL, Jan; PIKIEL, Leonard

Arteriosclerosis of the aorta, coronary vessels and arteries of the base of the brain and its sequelae in the light of autopsy data of the Institute of Pathological Anatomy of the Academy of Medicina in Gdansk in 1947-1961. Pat. Pol. 15 no. 10 (86-502 (-) 64.

1. Z Zakladu Anatomii Patologicznej Akademii Medycznej w Gdansku (Kierownik: prof. dr. med. W. Czarnocki [deceased]).

MIRECKI, Ludwik; STENCEL, Jan

Renal amyloidosis in malignant granuloma. Pol. tyg. lek. 19
no.47:1819-1821 23 N'64.

1. Z II Kliniki Chorob Wewnętrznych (kierownik: prof. dr. med.
J. Penson) i z Zakładu Anatomii Patologicznej Akademii Medycznej
w Gdansk (kierownik: prof. dr. W. Czarnocki).

KROCHMAL, Franciszek; STENCEL, Marian

Influence of anions on the anodic behavior of metallic zinc.
Mat chemia no.6:34-43 '62.

1. Katedra i Zaklad Chemii Fizycznej, Uniwersytet im. Adama
Michiewicza, Poznan.

JAKUBIK, Adam, inz.; PAKULA, Irena, inz.; STENCEL, ~~Zdzislaw~~.

Lime decarbonization of water and its coagulation with
ferrous sulfate. Energetyka Pol 17 no.12:358-361 D'63.

1 00000-07

ACC NR: AT6033753

SOURCE CODE: PO/2541/66/010/001/0115/0126

17

AUTHOR: Grabowiecki, Andrzej (Master engineer); Stencki, Tadeusz (Master engineer)

ORG: none

TITLE: Measuring the parameters of coaxial reflectometers within the range from 30 to 1000 Mc

SOURCE: Warsaw. Instytut Tele- i Radiotechniczny. Prace, v. 10, no. 1(34), 1966, 115-126

TOPIC TAGS: reflectometer, coaxial reflectometer, laboratory optic instrument

ABSTRACT: Methods have been described for measuring and evaluating the basic parameters of coaxial reflectometers developed at the Institute of Telecommunications and Radio Engineering. In addition to the results of measurements, other methods used are presented. The tests of reflectometers were carried out over 30--1000-Mc range. Orig. art. has: 10 figures. [Based on authors' abstract]

SUB CODE: 20/ SUBM DATE: 10Jan66/ ORIG REF: 001/ OTH REF: 005/

Card 1/1 *SLC*

UDC: 621.317.3 SKT 459

STENCI, J.

Stenci, J. Changes in the geometric form of electric contacts by wear and methods to prevent them. p.263

Vol. 10, no. 8, Aug. 1955 ELEKTROTECHNIK Praha, Czechoslovakia

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 2
February, 1956

STENCZEL, Juraj, inz.; KUCERA, Jaroslav, inz.

Some experience in using sprayed concrete in the construction of mining supports. Rudy 12 no.5:154-159 My '64.

1. Jachymovske doly, 9. kveten National Enterprise, Pribram.

STENDER, E. [Stenders, E.], red.; AYSUPIYETE, M. [Aizupiete, M.],
tekh. red.

[Street and highway traffic regulations in Latvia] Pravila
dvizhenia po ulitsam i dorogam Latviiskoi SSR. Riga, Lat-
gosizdat, 1957. 90 p. (MIRA 16:6)

1. Latvian S.S.R. Milicijas parvalde.
(Latvia--Traffic regulations)

SPENDER, Gerbert Markovich; ORNATSKIY, N.V., prof., doktor tekhn.nauk,
red.; POLIVANOV, N.I., doktor tekhn.nauk, red.; IVANOV, S.S.,
red.; GALAKTIONOVA, Ye.N., tekhn.red.

[German-Russian dictionary for highway engineers] Nemetsko-
russkii slovar' dorozhnika. Moskva, Nauchno-tekhn.izd-vo
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959.
469 p. (MIRA 12:8)

(German language--Dictionaries--Russia)
(Road construction--Dictionaries)

STENDER, G.M.; AKKERMAN, D.A., red.; KOROBYKOVA, N.I., tekhn. red.

[German-Russian dictionary on cement, concrete and reinforced
concrete] Nemetsko-russkii slovar' po tsementu, betonu i zhelezobe-
tonu. Moskva, Gosstroizdat, 1962. 377 p. (MIRA 15:12)
(German language--Dictionaries--Russian)
(Building materials--Dictionaries)

STENDER, Gerbert Markovich [Stender, H.]; MOTYLEV, Yu. L., kand.
tekhn. nauk, red.; VILENSKAYA, O. V., red.

[German-Russian dictionary of road construction] Nemetsko-
russkii slovar' po dorozhnomu stroitel'stvu. Izd. 2., perer.
i dop. Moskva, Sovetskaia entsiklopediia, 1964. 377 p.
(MIRA 17:12)

191T86

USSR/Mathematics - Schools

Jul/Aug 51

"Problem Concerning the Exposition of the Section Entitled 'Differential Equations' in the Mathematics Textbook of the Higher Technical Learned Institutions," P. V. Stender

"Uspekh Matemat Nauk" Vol VI, No 4 (44), pp 224-228

A discussion appearing in the regular "Remarks on Procedure and Methodology" section of this periodical, namely, on how the existence and uniqueness of the solutions of differential eqs are being taught in schools. Texts referred to are: A. K. Vlasov, "Course of Higher Mathematics, Vol II, Chap XII" 1945, pp 450-527; N.N. Luzin, "Integral Calculus, Chap VIII" 1949, 191T86

USSR/Mathematics - Schools (Contd)

Jul/Aug 51

pp 260-315; A. F. Bermant, "Course of Mathematical Analysis, Vol II, Chap XIV" 1950, pp 290-381.

191T86

STENDER, P. V.

USSR/Mathematics - Steve Method

Jan/Feb 53

PA 241177
"Application of the Steve Method to the Solution of
the Problem of Identity for Certain Groups With
Countable Set of Generating Elements and With
Countable Set of Defining Relations," P. V. Stender,
Leningrad

"Matemat Sbor" Vol 32 (74), No 1, pp 97-108

Attempts to extend results obtained by V. A. Tartakov-
skiy ("Method of the Steve," Ibid. 25 (67) (1949),
pp 3-49 and 251-274; Iz Ak Nauk SSSR, Ser Matemat,
13, No 6 (1949), 483-494) to a case of subject groups.
Acknowledges the guidance of V. A. Tartakovskiy

241177

during the execution of this work. Also employs Ye. S.
Lyapin's wording of some definitions used here. Sub-
mitted 18 Jan 52.

241177

Stender, P.V.

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 13 (USSR)

44-1-107

AUTHOR: Stender, P.V.

TITLE: On the Investigation of the Problem of Equivalence in the Rings of Two-step Matrices (K issledovaniyu voprosa ob ekvivalentnosti v kol'tse dvukhstupenchatykh matritys)

PERIODICAL: Zap. Leningr. zauch. industr. in-ta, Leningrad, LGU, 1955, pp 13-22

ABSTRACT: Let \mathfrak{S} be a ring of the matrices of order $n + m$ of the form $\begin{pmatrix} A_n & 0 \\ C & B_m \end{pmatrix}$, where A_n and B_m are square matrices corresponding to the orders n and m . It is proven that the number of the non-equivalent classes of matrices into which, in the ring \mathfrak{S} , the class of matrices from \mathfrak{S} is broken down, is equal to $\min(n, m) + 1$. (The matrices from \mathfrak{S} are equivalent, in the ring of all matrices of the order $n + m$, to the matrix $\begin{pmatrix} \tilde{A}_n & 0 \\ 0 & \tilde{B}_m \end{pmatrix}$).

Card 1/2

On the Investigation of the Problems of Equivalence in ⁴⁴⁻¹⁻¹⁰⁷ (Cont.)
where \tilde{J}_n and \tilde{J}_m are lower Jordanian cells of the orders
of n and m correspondingly with the same characteristic
number a .)

Ye. G. Shul'geyfer

Card 2/2

STENDER, P. V.: Master Phys-Math Sci (diss) -- "Some investigations with the method of extinction (of a lattice) in the theory of infinite groups". Leningrad, 1958. 6 pp (Min Educ RSFSR, Leningrad State Pedagogical Inst im A. I. Gertsen), 150 copies (KL, No 3, 1959, 108)

STENDER, Pavel Vasil'yevich; VOL'PE, L., red.

[Derivatives and differentials; transcriptions of lectures]
Proizvodnye i differentsialy; pis'mennye lektsii. Leningrad,
Severo-Zapadnyi zaachnyi politekhn.in-t, 1959. 94 p.
(MIRA 13:2)

(Calculus, Differential)

KOSTAREVA, Zinaida Grigor'yevna; STENDER, P.V., nauchnyy red.;
VOL'PE, L., red.

[The elements of vector algebra. Analytic geometry in space;
written lectures] Elementy vektornoj algebry. Analiticheskaja
geometriia v prostranstve; pis'mennye lektsii. Leningrad,
Severo-Zapadnyi zaokhnyi politekhn. in-t, 1962. 150 p.
(MIRA 15:7)

(Vector analysis) (Geometry, Analytic)

SHAROV, Aleksandr Ivanovich; STENDER, P.V., nauchn. red.;
VOL'PE, L., red.

[Series and some of their applications; a textbook]
Riady i nekotorye ikh prilozheniia; uchebnoe posobie.
Leningrad, Severo-Zapadnyi zaochnyi politekhn. in-t,
1965. 206 p. (MIRA 19:1)

STENDER, P.V.

On primitive elements in a free group of rank 2. Izv. vys.
uch.zav.; mat. no.5:101-106 '62. (MIRA 15:9)

1. Severo-zapadnyy zaachnyy politekhnicheskiy institut.
(Groups, Theory of)

Vesse' for decomposing alkali and alkaline earth amalgams. V.V. STENDER, RUSS
27,384, Oct. 31, 1931. The vessel is either lined with, or entirely made of, graphite
or coal and is satd. with metals or their salts.

9

PROCESSES AND PROPERTIES INDEX

Electrochemical oxidation of ferrous ferrocyanide. Y. V. Steady and A. M. Brumov, *Laborsvobodu Ind.* 1963, No. 4, 24-8; *Chimia & Industrie* 31, 647. Electrolytic oxidation of white $Fe_2Fe(CN)_6$ to $(KFe)_2Fe(CN)_6$ presents considerable savings as compared with the usual oxidizing process by means of $KClO_3$. Optimum operating conditions are: anodic c. d. 2.5 amp./sq. dm.; cathode c. d. 3.5 amp./sq. dm.; temp. 67°; electrolyte 44 g./l. $K_4Fe(CN)_6$, 33.1 g. $FeSO_4$ and 7.8 g. H_2SO_4 ; av. voltage 4.7. The cathode is an Fe sheet; the anode, a perforated Pb sheet (40% of surface = holes). The electrode spacing is 5 cm. A. Papineau-Conture.

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50						

STANDAR, Vladimir Vasil'evich.

Electrolytic derivation of chlorine and alkalis Leningrad, ONTI, KHIMTEORET, 1935. 710 p.

PROCESSES AND PROPERTIES INDEX

4

Electrochemical distillation of water. V. V. Stender, F. P. Fedorov, A. A. Vorkov and V. S. Mokhanov. *Trans. VI Mendeleev Congr. Theoret. Applied Chem.* 1932 2, Pt. 2, 233-5(1935). Trials were made with Caspian Sea water and Turkmenistan salt-spring water contg. up to 15,000 mg./l. of solid residue. A current output of 20-25% was obtained, but the consumption of energy was high, attaining 150-200 kw.-hrs./cu. m. The low output is due largely to the ratio of transfer nos. of anodic and cathodic liquids. Electroosmotic phenomena play an important part. R. K. Stefanowsky

REFERENCE LITERATURE CLASSIFICATION

1ST AND 2ND ORDER 3RD AND 4TH ORDER

PROCESSING AND PROPERTIES INDEX

BC

B-I-5

Electrolytic iron from chloride solutions.
 V. ~~...~~, L. J. ~~...~~, and E. I. ~~...~~
 (Metallurgy, 1958, No. 7, 114-120).--The best results were obtained at 85-90° with a c.d. of 250 amp./sq. cm., an acidity of 0.0025-0.005N-HCl, and a [FeCl₂] of 250-400 g/l.
 Ch. Abs. (c)

COMMON ELEMENTS

COMMON VARIANTS INDEX

ASD-51A METALLURGICAL LITERATURE CLASSIFICATION

NUMERICAL INDEX

ALPHABETIC INDEX

1ST AND 2ND ORDER

3RD AND 4TH ORDER

I. Electrolytic preparation of ammonium persulfate. Potential and conductivity of the solutions. V. V. Stender and I. G. Zhornitskii. *J. Applied Chem. (U.S.S.R.)* 10, 990-1010 (in French 1010) (1937).—Cathode potentials for pure Pb and anode potentials for smooth Pt in the electrolysis of acid solns. of $(NH_4)_2SO_4$ were detd. at a cathode c.d. of 0.02-1.0 amp./sq. cm. and anode c.d. of 0.02-8.0 amp./sq. cm. at 10°, 25° and 35°. Sp. elec. cond. of acidic solns. of $(NH_4)_2SO_4$ were detd. at 15° and 25° for the H_2SO_4 concn. 15-35% and that of $(NH_4)_2SO_4$ 15-35%, and also of these solns. after conversion of 20-50% of SO_4 ion to S_2O_8 ion. The ds. of the solns. were detd. also, and graphs are given for the conversion compn. from percentage by wt. to g./l. The balance sheet of voltage for the electrolysis of acidic solns. of $(NH_4)_2SO_4$ is also given. Twenty-four references.

II. The balance of the amount of electricity. V. V. Stender and B. I. Skirstynonskaya. *Ibid.* 1330-31 (in French 1351).—A review. The electrolysis of a $(NH_4)_2SO_4$ soln. (300 g./l.) in the presence of 280, 225 and 125 g./l. H_2SO_4 was studied. Twenty-seven references.

III. The electrode cell. V. V. Stender and I. G. Zhornitskii. *Ibid.* 1352-4 (in French 1354).—The cell for the prepn. of acid solns. of $(NH_4)_2SO_4$, consisting of a hollow, perforated Pb cathode, which is covered with a diaphragm of microporous ebonite, is described and exptl. data tabulated. Six references.

A. A. Podgorny

AS & SLA METALLURGICAL LITERATURE CLASSIFICATION

CH

7

Electrolytic preparation of benzidine-3,3'-disulfonic acid. L. M. Gribina and V. V. Pionchev. *J. Applied Chem. (U. S. S. R.)* 13, 1028 (in French, 1940) (941)

A chemically pure benzidine-3,3'-disulfonic acid (I) was electrolytically prepd. from raw material contg. Na *m*-toluenesulfonate 45, water 53 and mech. and in-sol. admixts. 2% in two stages under the following optimal conditions, with the yield of 65-60%: (1) c. d. 5-2 amp./sq. in., in a slightly alk. catholyte (concn. of depolarizer should be about 15-20 vol. %) of pH near 7, with Ni or Fe cathodes and an anolyte, prepd. from the soln. of any salt (as Na₂SO₄) the anion of which did not interfere with the process, at any temp.; (2) c. d. 0.5-1 amp./sq. in., in a slightly acidic soln. (concn. about 1-2%), pH about 7, with Pb cathode, and the same anolyte as above, at any temp. (temp. variation had no effect on the process). (I) was pptd. from a slightly acidic soln. by an addn. of H₂SO₄. A. A. Podgorny

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

CA
 Electrolytic preparation of barium perchlorate. E. S. Belmarovich and V. A. Stender. *J. Applied Chem.* U. S. S. R. 14, 191 (1941). In the electrolytic prepn. of $Ba(ClO_4)_2$ from the chlorate, it is difficult to det. perchlorate directly in presence of chloride and chlorate. It was therefore detd. by difference. The chlorate was prepd. from a neutral soln. of $BaCl_2$ (250 g./l.) with graphite electrodes. Anode c. d. was 0.65 amp./sq. cm. at 30-60°. Ten g. of $CaCl_2$ per l. of soln. was added to prevent cathodic reduction. Electrolysis was continued to a $BaCl_2$ concn. of 50 (60) g./l., then the soln. was filtered and cooled to crystallize the product, which contained 1.5-2% $BaCl_2$. The chlorate was oxidized in a glass vessel (120 cc.) provided with Pt wire electrodes. Electrolysis was carried on for 6-9 hrs., during which time 3-6 analyses of the electrolyte were made. The anode c. d. was from 0.5 to 3 amp./sq. cm., temps. from 20° to 65°. Initial concn. of $Ba(ClO_3)_2$ was 250 g./l., c. m. f. across the electrodes, usually 9 v., with diaphragm, 13 v.). Although, theoretically, the acidity of the electrolyte should remain const., actually, the soln. becomes weakly alk. owing to discharge of Cl^- ions at the anode; presence of chloride is

due to $BaCl_2$ impurity in $Ba(ClO_3)_2$ used and to cathodic reduction. The presence of Cl^- ions causes a noticeable drop in current efficiency (9 equivalents of electricity oxidize 1 Cl^- to ClO_2). Addn. of $BaCl_2$ to the electrolyte caused a sharp drop in initial current yield, then, as Cl^- was oxidized the yield rose to a max., and began to drop off as the concn. of $Ba(ClO_3)_2$ decreased. A series run at 25-30° with anode c. d. varied from 0.5 to 3 amp./sq. cm. showed that higher c. d. leads to higher yields. Runs at 30-5° with anode c. d. 1 amp./sq. cm. with cathode c. d. varied from 2 to 1 amp./sq. cm. showed that in initial electrolysis the higher c. d. gave somewhat higher current yield, but in later stages the results are coincident with each other. A series of runs with anode c. d. 2 amp./sq. cm. and cathode c. d. 1 amp./sq. cm. with temp. varied from 20° to 80-90° showed that increase of temp. sharply lowers the current yield, with almost zero yield at 80-90°. In order to study the effect of cathodic reduction, the electrodes were sealed into glass tubes, so that the electrolysis was essentially conducted in a U-shaped vessel; difficulty was experienced in keeping the desired low temp. with this set-up. The time-concn. curves in this case do not show a max., the temp. effect is greater, the amt. of Cl^- oxidized to ClO_2 is very small and does not affect the current yield, with the concn. of Cl^- dropping very slowly and still being a considerable part of initial at the end of electrolysis. From the amt. of H_2 evolved at the cathode it was evident that cathodic reduction was almost absent. The best results were obtained with initial $Ba(ClO_3)_2$ concn. 250 g./l., $BaCl_2$ not over 2% of the chlorate, anode c. d. 2 amp./sq. cm., cathode c. d. 1 amp./sq. cm., and electrolyte temp. 20-25°, when av. current yields of 92% were realized. Addn. of chromates or $CaCl_2$ to combat cathodic reduction were ineffective. G. M. Kosolapoff

9

CA

4

Electrolytic refining of Pb in sulfamic acid solutions
 V. V. Sender, E. A. Pavlov, and V. D. Hudon. *J. Applied Chem.* (U.S.S.R.) 17, 289-300(1944)(English summary).—The effects of c.d., concn., and duration of electrolysis on the quality of cathode deposit were studied. Optimum conditions recommended are: electrolyte with 12% Pb as sulfamate, 20 g./l. free sulfamic acid; 3 g./l. res-rosin, and 1.5 g./l. glue; c.d. 500 amp./sq. m., 35–40°, duration 24 hrs. Current efficiency is 99–100%; 575 kw.-hrs./ton refined Pb. Anodes contg. 3.5% Bi give very pure Pb with less than 0.0005% Bi. The anodic deposit is firmly adherent and contains about 70% Bi.
 G. M. Kosolapoff

AS 6 51 A METALLURGICAL LITERATURE CLASSIFICATION

6 2 7 1 2 3 4

4300 51 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

4300 51 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

4300 51 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

4300 51 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

4300 51 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100